



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 1 – Reduce Air Pollution					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<p><b>Objective 1: By 2020, in accordance with the NAFTA, promote the reduction of the number of vehicles operating in the border region that do not comply with respective vehicle standards, and reduce vehicle emissions at points-of-entry through anti-idling and other feasible reduction measures.</b></p>					
Complete particulate matter (PM) and NOx emissions assessment for northbound passenger and freight vehicles at the Mariposa Port of Entry.	<ul style="list-style-type: none"> <li>Arizona State University</li> <li>Border Environment Cooperation Commission (BECC)</li> </ul>	\$136,000	<ul style="list-style-type: none"> <li>Environmental Protection Agency (EPA)</li> <li>Border Environment Cooperation Commission (BECC)</li> </ul>	Joaquin Marruffo- BECC ( <a href="mailto:jmaruffo@cocef.org">jmaruffo@cocef.org</a> )	<p><b>Anticipated Results:</b> Complete final report that quantifies PM and NOx emissions and identifies emissions reductions strategies at the Mariposa Port of Entry.</p>
<p><b>Objective 2: By 2020, reduce pollutant emissions in order to approach attainment of respective national ambient air quality standards in the following airsheds: Ambos Nogales (PM 2.5 and PM 10), San Diego/Tijuana, Imperial County/Mexicali, Paso del Norte (El Paso/Juarez/Sunland Park)</b></p>					
Complete an Emissions Inventory for Criteria Pollutants for Nogales, Sonora.	<ul style="list-style-type: none"> <li>Calidad de Vida</li> </ul>	\$54,000	<ul style="list-style-type: none"> <li>EPA</li> <li>BECC</li> </ul>	Joaquin Marruffo- BECC ( <a href="mailto:jmaruffo@cocef.org">jmaruffo@cocef.org</a> )	<p><b>Anticipated Results:</b> Complete final report that identifies the sources of criteria pollutants such as CO<sub>2</sub>, lead, NO<sub>2</sub>, ozone, PM<sub>2.5</sub>/PM<sub>10</sub>, and SO<sub>2</sub> in Nogales, Sonora.</p>
Develop an Air Quality Management Plan ( <i>Pro-Aires</i> ) for Nogales, Sonora	<ul style="list-style-type: none"> <li>Calidad de Vida</li> </ul>	\$51,000	<ul style="list-style-type: none"> <li>EPA</li> <li>BECC</li> </ul>	Jorge Hernandez-BECC ( <a href="mailto:jhernandez@cocef.org">jhernandez@cocef.org</a> )	<p><b>Anticipated Results:</b> Completion of final report that identifies actions to reduce emissions of criteria pollutants</p>



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 1 – Reduce Air Pollution					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<p><b>Objective 3: By 2018, maintain effective air monitoring networks and provide real-time access to air quality data in: Arizona/Sonora, California/Baja California, Paso del Norte, and any additional binational airshed that is designated as non-attainment for U.S. or Mexican air quality standards prior to 2015.</b></p>					
Operate PM10 Monitor in Nogales, Sonora.	<ul style="list-style-type: none"> <li>• Arizona Department of Environmental Quality (ADEQ)</li> <li>• EPA</li> <li>• Comisión de Ecología y Desarrollo Sustentable del Estado de Sonora (CEDES)</li> </ul>	TBD	<ul style="list-style-type: none"> <li>• EPA</li> </ul>	Gerardo Monroy - ADEQ ( <a href="mailto:Monroy.Gerardo@azdeg.gov">Monroy.Gerardo@azdeg.gov</a> )	<p><b>Anticipated Results:</b> Effective operation of monitor and final report with results.</p>
Operate and Maintain Douglas and Nogales, Arizona Air Quality Monitoring Stations	<ul style="list-style-type: none"> <li>• ADEQ</li> <li>• EPA</li> </ul>	Staff time and maintenance costs	<ul style="list-style-type: none"> <li>• ADEQ</li> <li>• EPA</li> </ul>	Gerardo Monroy - ADEQ ( <a href="mailto:Monroy.Gerardo@azdeg.gov">Monroy.Gerardo@azdeg.gov</a> )	<p><b>Anticipated Results:</b> Effective operation of air monitoring stations and post real-time air monitoring data on web.</p>
<p><b>Objective 4: By 2015, support completion of climate action plans in each of the six northern Mexican Border States (as appropriate), and build the necessary capacity to guarantee sustained implementation.</b></p>					
<p><b>Objective 5: By 2020, reduce emissions and associated impacts through energy efficiency and/or alternative/renewable energy projects.</b></p>					



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 2 – Improve Access to Clean and Safe Water					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b>Objective 1: Promote the increase in the number of homes connected to safe drinking water and adequate wastewater treatment.</b>					
<b>Sub-objective 1a: By end of 2016, promote access to safe drinking water to at least 2,200 households border-wide. Revise targets every two years</b>					
Provide Pomerene, AZ with a technically and financially feasible drinking water system to reduce arsenic and fluoride concentrations in their drinking water below the established Maximum Contaminant Level (MCL).	Pomerene Water District, NADB/BECC/EPA	Total Project Construction \$2.1 M	EPA	Roberto Molina, BECC ( <a href="mailto:rmolina@cocef.org">rmolina@cocef.org</a> )	<b>Anticipated Results:</b> Certify project and begin construction.
Increase potable water service reliability and reduce incidents of service interruption and/or low pressure in Nogales, AZ.	City of Nogales, NADB/BECC	Total Project Construction \$0.645 M	CAP (NADB Program) \$500k, City of Nogales \$145k	Roberto Molina, BECC ( <a href="mailto:rmolina@cocef.org">rmolina@cocef.org</a> )	<b>Anticipated Results:</b> Improve 330 existing household connections; 1,178 benefited residents, contributing to the reduction of risks of waterborne diseases.
Sonoyta Wastewater Treatment Plant improvements and expansion of sewer collection system.	Comisión Nacional del Agua (CONAGUA), EPA, North American Development Bank (NADB)	\$3.8 Million	EPA/Mexico federal, state and local sources	Hector Aguirre, EPA ( <a href="mailto:aguirre.hector@epa.gov">aguirre.hector@epa.gov</a> )	<b>Anticipated Results:</b> Connect 720 homes to wastewater service and construct two sewer conveyance lines and a new wastewater treatment plant utilizing a stabilization lagoon system.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 2 – Improve Access to Clean and Safe Water					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b><i>Sub-objective 1b: By end of 2016, promote access to adequate wastewater sanitation to 40,700 households border-wide. Revise targets every two years.</i></b>					
Bisbee-Tintown, Arizona. Wastewater collection project to eliminate nonconforming cesspools and failing septic tanks for wastewater treatment.	USDA-RD, EPA	\$1.7 Million	EPA, USDA	Roger Kohn, EPA ( <a href="mailto:kohn.roger@epa.gov">kohn.roger@epa.gov</a> )	<b>Anticipated Results:</b> Improve existing wastewater service connections to 32 homes; Construct wastewater gravity mains and manholes, a force main, lift station, solar panels, and laterals to household connections. Decommission non-conforming septic systems.
The project proposes to improve the existing wastewater treatment plant (WWTP) in Willcox, AZ to adequately treat its discharges to Cochise Lake.	City of Willcox, USDA, BECC/NADB and EPA	\$10.66M Total Construction including \$8.0M Border Environment Infrastructure Fund (BEIF)	EPA, USDA	Roberto Molina, BECC ( <a href="mailto:rmolina@cocef.org">rmolina@cocef.org</a> )	<b>Anticipated Results:</b> Improve service connections for 1,095 households. Improve wastewater treatment process for the existing 0.60 MGD plant to address inadequately treated wastewater discharges currently released to Cochise Lake, an impaired water body.
San Luis Rio Colorado, Sonora. Wastewater Collection project along "Avenidas B" Streets.	Comisión Nacional del Agua (CONAGUA), EPA, North American Development Bank (NADB)	\$7 Million	EPA/Mexico federal, state and local sources/NADB	Hector Aguirre, EPA ( <a href="mailto:aguirre.hector@epa.gov">aguirre.hector@epa.gov</a> )	<b>Anticipated Results:</b> Connect 4,000 new home wastewater service connections benefitting over 16,000 residents.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 2 – Improve Access to Clean and Safe Water					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b>Objective 2: Help drinking water and wastewater utilities in the border region to implement sustainable infrastructure practices to reduce operating costs, improve energy efficiency, use water efficiently and adapt to climate change.</b>					
<b>Sub-objective 2a: Incorporate sustainable infrastructure elements, as feasible and appropriate, into U.S.-Mexico Border Water Infrastructure Program-supported BECC-certified projects, which, in Mexico, are implemented through the EPA-CONAGUA Memorandum of Understanding Concerning the Joint Grant Contributions for Drinking Water Supply.</b>					
Sustainable infrastructure components will be incorporated into the Douglas Wastewater Treatment Plant (WWTP)/Bay Acres project.	EPA, NADB, BECC	TDB	Local, state and federal partners	Roger Kohn, EPA ( <a href="mailto:kohn.roger@epa.gov">kohn.roger@epa.gov</a> )	<b>Anticipated Results:</b> Identify and incorporate the sustainable infrastructure components in the Douglas/Bay Acres project and anticipated operating and/or efficiency cost-savings.
Green Infrastructure Border-wide forum.	EPA, BECC, NADB, City of Tucson, Watershed Mgmt. Group, Mexican Consulate of Tucson, and U of A	\$65,000	EPA \$20k NADB \$15k BECC \$30k	Joaquin Marruffo, BECC, ( <a href="mailto:jmarruffo@cocef.org">jmarruffo@cocef.org</a> )	<b>Anticipated Results:</b> Train city planning officials on latest techniques to capture stormwater.
<b>Sub-objective 2b: Improve energy efficiency and efficient water use at border drinking water and wastewater utilities.</b>					
Implementation of energy/water audit recommendations in San Luis Rio Colorado's drinking water system.	NADB/BECC, OOMAPAS	TBD	NADB, BECC TA program	Roberto Molina, BECC, ( <a href="mailto:rmolina@cocef.org">rmolina@cocef.org</a> )	<b>Anticipated Results:</b> Implement micrometering and sectorization in San Luis Rio Colorado's drinking water system to increase water and energy efficiency.
Perform audits in US-Mexico Border Water Infrastructure Program projects.	EPA, CONAGUA, BECC	TBD	PDAP	Roberto Molina, BECC ( <a href="mailto:rmolina@cocef.org">rmolina@cocef.org</a> )	<b>Anticipated Results:</b> Conduct water audits in at least (3) utilities, including, San Luis Rio Colorado, Sonora; Douglas, AZ; and Pomerene, AZ.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 2 – Improve Access to Clean and Safe Water					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b><i>Sub-objective 2c: Build operational, managerial and financial capacity through training of drinking water and wastewater service providers in the border region.</i></b>					
Training on Energy Efficiency in water-wastewater (w-ww) utilities.	NADB, BECC, Sonora Water Utility (WU)	\$25,000	TA NADB/BECC program	Joaquin Marrufo, BECC ( <a href="mailto:jmarrufo@cocef.org">jmarrufo@cocef.org</a> )	<b>Anticipated Results:</b> Complete training.
<b><i>Objective 3: Work binationally to identify and reduce surface water contamination in specific high priority water bodies or watersheds.</i></b>					
<b><i>Sub-objective 3b: Every two years, identify and implement at least one project to reduce the level of heavy metals, sediment, and/or bacteria entering the Santa Cruz River and/or the Nogales Wash</i></b>					
Provide sampling and testing equipment and supplies to support Ambos Nogales waste characterization study.	International Boundary and Water Commission (IBWC)	\$10,000	IBWC	Wayne Belzer, IBWC ( <a href="mailto:wayne.belzer@ibwc.gov">wayne.belzer@ibwc.gov</a> )	<b>Anticipated Results:</b> Supply Nogales, Sonora with monitoring equipment as identified in final scope of work for waste characterization study for ambos Nogales.
Facilitate binational technology and expertise exchange for pretreatment of metals in wastewater including peer-to-peer industry outreach and collaboration with the Association of Environmental Safety Professionals (APSA).	ADEQ, EPA, Partnering Organizations or Industries	Staff time (approximately 80 hours)	ADEQ, US EPA, Partnering Organizations or Industries	Hans Huth, ADEQ ( <a href="mailto:huth.hans@azdeq.gov">huth.hans@azdeq.gov</a> )	<b>Anticipated Results:</b> Facilitate a field-based binational technology exchange to observe best practices and improve management of metals in wastewater discharges.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 2 – Improve Access to Clean and Safe Water					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Develop a pre-treatment toolkit focused on reducing Fats, Oils, and Greases (FOG) at Nogales, Arizona wastewater treatment plant (WWTP).	BECC/EPA, City of Nogales, Arizona	\$68,000	EPA	Douglas Liden, EPA ( <a href="mailto:liden.douglas@epa.gov">liden.douglas@epa.gov</a> )	<b>Anticipated Results:</b> Develop a pretreatment outreach toolkit that includes materials and programs to educate residents on impacts of FOG on the sewer system and proper ways to dispose of them.
Design plans to rehabilitate International Outfall and Interceptor (IOI).	IBWC	\$639,000	IBWC	Crystal Cadillo, IBWC ( <a href="mailto:Crystal.cadillo@ibwc.gov">Crystal.cadillo@ibwc.gov</a> )	<b>Anticipated Results:</b> Develop design plans to rehabilitate the international outfall and interceptor in order to extend its operating life to continue treating wastewater from Ambos Nogales.
Provide training on handling of wastewater containing metals and cyanide.	EPA, BECC, ADEQ, APSA, ASU, OOMAPAS, Alcoa	\$57,000	EPA	Doug Liden, EPA ( <a href="mailto:liden.douglas@epa.gov">liden.douglas@epa.gov</a> )	<b>Anticipated Results:</b> Convene two workshops (one on each side of the border) to train the metal-plating industry on the proper management and treatment of wastewater in order to avoid upsets at Nogales International Treatment Plant.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 3- Promote Materials Management, Waste Management and Clean Sites					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b>Objective 1: By 2020, increase local and state-level institutional knowledge and experience in the area of sustainable material management practices.</b>					
Develop guidance on preparing end-of-life vehicles (junk cars) for disposal in an environmentally sound manner.	EPA, SEMARNAT, and border stakeholders.	In-kind.	EPA-HQ	Nathan Wittstruck <a href="mailto:Wittstruck.Nathan@epa.gov">Wittstruck.Nathan@epa.gov</a>	<b>Anticipated Results:</b> Develop guidance on disposing of end-of-life vehicles for export.
<b>Objective 2: By 2014, identify priority waste streams and by 2020 develop sustainable material management practices that strengthen their respective market value.</b>					
Hold at least four e-waste collection events and conduct educational outreach on best management practices to safely recycle electronic devices in Douglas, Nogales, Sahuarita, and Yuma, Arizona.	Arizona Dept. of Environmental Quality.	\$63,621	EPA/BECC grant	J.B. Shaw ,ADEQ, <a href="mailto:Shaw.Joseph@azdeq.gov">Shaw.Joseph@azdeq.gov</a>	<b>Anticipated Results:</b> Collect at least 60,000 lbs. of e-waste. Complete four e-waste collection events and educational outreach. Increase public awareness on best management practices and increase use of certified recyclers.
Inventory 12 laboratories on electronic equipment, development a strategy to repair/reuse equipment and properly dispose of obsolete electronics.	Colegio de Químicos de Nogales, A.C	\$35,216	EPA/BECC grant	Pedro G Crespo; Diana Hernandez <a href="mailto:dbhernandezb@gmail.com">dbhernandezb@gmail.com</a>	<b>Anticipated Results:</b> Inventory 12 laboratories; hold; conduct up to six collection events to properly dispose of lab e-waste; and create internal protocols to reuse/repair usable electronic and their components and properly discard e-waste.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan

Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 3- Promote Materials Management, Waste Management and Clean Sites					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Increase capacity to recycle used oil from small businesses by providing compliance educational outreach and by developing three used oil collection transfer stations in Nogales, Sonora.	Municipality of Nogales, Sonora	\$16,508 (with in-kind giving total value \$29,713)	EPA/BECC Grant Border 2020	Adriana Guerrero Martínez, Dpto. Ecología, Nogales, SN	<b>Anticipated Results:</b> Collect 250,000 liters of used oil as part of demonstration project; train at least 25 small businesses on used oil best practices; develop three used oil transfer stations; and report on number of small business trained. Project will help reduce the illegal dumping of used oil.
Acquisition of two solid waste collection vehicles with automated systems.	City of Douglas-Solid Waste Dept., NADB/BECC.	\$500,000 USD	CAP (NADB Program)	Jessica Hernandez - BECC ( <a href="mailto:jahernandez@cocef.org">jahernandez@cocef.org</a> )	<b>Anticipated Results:</b> Procure two solid waste collection vehicles to improve safety and efficiency, reduce costs, and maximize value in solid waste collection.
<b>Objective 3: By 2020, improve knowledge at every level of government (federal, state, local) to characterize and remediate contaminated sites.</b>					
Source characterization and trash cleanups in the Nogales Wash and Santa Cruz River.	ADEQ, EPA, SEMARNAT, CEDES, Ambos Nogales	TBD	EPA	Emily Pimentel, EPA	<b>Anticipated Results:</b> Develop source characterization protocols to help regularly locate and assess trash sources. Complete two trash cleanups (volume/weight to be determined) in the Nogales wash and Santa Cruz river in Ambos Nogales.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 3- Promote Materials Management, Waste Management and Clean Sites					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b>Objective 4: On an annual basis, implement the Binational Consultive Mechanism on sharing information on border area hazardous waste.</b>					
Implement consultative mechanism in coordination with border states to disseminate information on treatment, storage, and disposal facilities along the AZ/Sonora border.	ADEQ/ CEDES/ EPA/ SEMARNAT	In-Kind	In-kind EPA, SEMARNAT, and State Program Funding	Edna Mendoza (ADEQ); <a href="mailto:Mendoza.Edna@azdeq.gov">Mendoza.Edna@azdeq.gov</a> Emily Pimentel (EPA); TBD (CEDES)	<b>Anticipated Results:</b> Implement the Consultative Mechanism by publishing an annual report on the Border 2020 website. Update annually, unless there are proposed new facilities in which case the respective countries would be notified within 30 days of a petition for a facility permit.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 4- Enhance Joint Preparedness for Environmental Response					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b>Objective 1: Update as necessary, the current Mexico-US Joint Contingency Plan and on an annual basis, continue to evaluate and update the emergency notification mechanism between Mexico and the United States.</b>					
Continue to evaluate the emergency response notification system at the federal level and at the local and state levels.	EPA, Protección Civil, PROFEPA, ADEQ, and other AZ-Sonora Task Force partners.	TBD	TBD	Bill Jones - USEPA ( <a href="mailto:jones.bill@epa.gov">jones.bill@epa.gov</a> )	<b>Anticipated Result:</b> Evaluate the emergency response notification system and perform Quarterly communications tests as well as simulations to work through events such as a hazardous materials spills.
<b>Objective 2: By 2020, at least eight (8) of the sister city joint contingency plans will be supplemented with preparedness and prevention related activities such as certified training, risk analysis, and/or capacity building.</b>					
Update three Sister City Plans with preparedness and prevention related activities.	EPA, Protección Civil, PROFEPA, ADEQ, and other AZ-Sonora Task Force partners.	TBD	US EPA Superfund	Bill Jones - USEPA ( <a href="mailto:jones.bill@epa.gov">jones.bill@epa.gov</a> )	<b>Anticipated Results:</b> Update Sister City Plans for Ambos Nogales, Douglas-Agua Prieta, and San Luis/Yuma-San Luis Rio Colorado.
Provide training to emergency responders on preparedness and prevention related activities.	EPA, Protección Civil, PROFEPA, ADEQ, and other AZ-Sonora Task Force partners.	Contingent on available resources	TBD	Bill Jones - USEPA ( <a href="mailto:jones.bill@epa.gov">jones.bill@epa.gov</a> )	<b>Anticipated Result:</b> Provide First Responder Awareness (FRA) training; First Responder Operations (FRO) training; HazMat refresher; Incident Command System 100, 200 and 300; and Rail tanker car training.
Develop trilateral Contingency Plan for Tohono O'odham, Yuma, and San Luis Rio Colorado.	Tohono O'odham/ City of Yuma/ City of San Luis Rio Colorado,	\$80,000	US EPA Superfund	Bill Jones - USEPA ( <a href="mailto:jones.bill@epa.gov">jones.bill@epa.gov</a> )	<b>Anticipated Results:</b> Finalize and implement trilateral contingency plan for Tohono O'odham, Yuma, and San Luis Rio Colorado.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Goal 4- Enhance Joint Preparedness for Environmental Response					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
<b>Objective 3: By 2016, the US-Mexico JRT will make available technical outreach and training materials for distribution and dissemination along the border.</b>					
Provide capacity building materials that will enhance response readiness, cross-border coordination, and training continuance for emergency responders in Arizona/Sonora.	EPA, Protección Civil, PROFEPA, ADEQ, and other AZ-Sonora Task Force partners.	TBD	US EPA Superfund	Bill Jones - USEPA ( <a href="mailto:jones.bill@epa.gov">jones.bill@epa.gov</a> )	<b>Anticipated Results:</b> Provide capacity-building materials leading to enhanced response readiness, cross-border coordination, and training continuance.
Distribute Incident Command System, Personal Protective Equipment, Fire Safety, Radiation Safety, Mercury Response, and First Responder Awareness training.	EPA, Protección Civil, PROFEPA, ADEQ, and other AZ-Sonora Task Force partners.	Contingent on available resources	TBD	Bill Jones - USEPA ( <a href="mailto:jones.bill@epa.gov">jones.bill@epa.gov</a> )	<b>Anticipated Results:</b> Amount of emergency response systems and equipment distributed. Results will be based on available resources.
<b>Objective 4: By 2016, the US-Mexico JRT will analyze existing agreements (including sister city plans) that allow trans-boundary movement of equipment and personnel for comparison purposes.</b>					
Research agreements that allow personnel and equipment to cross the international border to respond to environmental emergencies. Seek assistance from Border Governors, as appropriate.	EPA, PROFEPA. PROT. CIVIL, State and Local Municipalities.	TBD	TBD	Beatriz Oliveira, Bill Jones, Enrique Ortiz, Jorge Vargas	<b>Anticipated Results:</b> Identify at least one mutual agreement that permits the movement of personnel and equipment across the US-MX border. Obtain assistance from Border Governors to develop agreement on trans-border movement of equipment and personnel.





## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Fundamental Strategy – Environmental Health					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Project will collect environmental health data and identify the current status of environmental health along the AZ/Sonora border region. Will focus on childhood blood levels, mercury, and pesticides poisoning, asthma rates, and asthma hospitalizations.	Sonora Environmental Research, Inc.	\$45,975 (\$37,975 Border 2020 Grant and \$8,000 leveraged funds)	EPA/BECC and leveraged	Jeremy Bauer, EPA <a href="mailto:bauer.jeremy@epa.gov">bauer.jeremy@epa.gov</a> Aminata Kilungo, SERI <a href="mailto:akilungo@seriaz.org">akilungo@seriaz.org</a>	<b>Anticipated Results:</b> Completion and publishing of report. At least two presentations on results.
Conduct at least one <i>promotor</i> workshops to share environmental health information with promotores and health outreach workers who will share information with vulnerable populations along the Arizona-Sonora border.	EPA, U.S.M. Border Health Commission (BHC), R9 Pediatric Environmental Health Specialty Unit (PEHSU)	TBD	EPA and BHC	Jeremy Bauer, EPA	<b>Anticipated Results:</b> Hold workshop in Nogales/Nogales. Reach approximately 50-75 promotores who will then build knowledge with their communities and vulnerable populations in Arizona/ Sonora.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan

Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Fundamental Strategy – Environmental Health					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Convene a Border Children's Health Symposium for medical and healthcare practitioners working in the border region to build children's environmental health capacity and ensure that environmental health information and emerging studies are reaching doctors and public health personnel working with vulnerable populations within the border region.	EPA, BHC	TBD	EPA - Children's Health, Border, U.S.M. Border Health Commission	Jackie Menghrajani and Jeremy Bauer, EPA	<b>Anticipated Results:</b> Reach at least 150 physicians, public health nurses, staff and promotores on priority environmental health topics impacting border communities.
Recruiting schools to participate in Flag Programs in which schools and administrators share information on air quality, and curtail outside activity when necessary.	ADEQ	TBD	past funding came through EPA but currently funded by ADEQ	Julie Finke, ADEQ	<b>Anticipated Results:</b> Increased participation in Flag Program.
Implement an Extreme Weather and Public Health Program to develop a climate adaptation plan in response to extreme weather.	ADHS, CDC	TBD	TBD	Matthew Roach, ADHS, Jennifer Botsford, ADHS	<b>Anticipated Results:</b> Create and implement climate adaptation plan in 2016. Identify vulnerable populations; create bilingual materials, toolkits and videos, and other interventions to build resilience.
Implement Sunwise School Program in Arizona Public Schools for grades K-8 to teach sun safety using EPA Sunwise curriculum.	ADHS	TBD	TBD	Jennifer Botsford, ADHS	<b>Anticipated Results:</b> EPA Sunwise curriculum materials are distributed and presented in schools.



## Arizona-Sonora 2015-2016 Border 2020 Action Plan



Arizona-Sonora Border 2020 Master Action Plan – 2015-2016 Fundamental Strategy – Environmental Health					
Description of Action	Collaborating Organizations	Cost	Sources of Funding	Lead Points of Contact	2016 Target Output and Results
Implement lead poisoning prevention program to encourage physicians to increase their screening rates of children in Arizona during the first and second year well-baby visits as well as first time testing for older children who have never been tested. The program will also sample a variety of imported products to determine levels of lead in pottery, candies and imported spices.	ADHS	TBD	TBD	Jenifer Botsford, ADHS	<b>Anticipated Results:</b> Increased lead screenings and sampling of imported products. Implement lead poisoning prevention program for physicians.
Implement Arizona’s Environmentally Healthy School recognition program to acknowledge the schools that have implemented 14 of 22 environmental measures aimed to protect human health and the environment.	ADEQ	TBD	ADEQ	Julie Finke, ADEQ	<b>Anticipated Results:</b> Showcase and recognize at least five schools that meet or exceed Arizona’s Environmentally Healthy School criteria.
Expand Arizona’s school bus idling program to add other sources of idling emissions.	ADEQ	Information unavailable.	Information unavailable.	Julie Finke, ADEQ	<b>Anticipated Results:</b> Expand the program beyond the 167 schools currently participating; Increase the number of schools and communities that also include delivery drivers, parents, and city employees in their idling program.